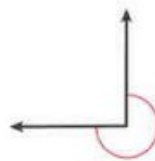


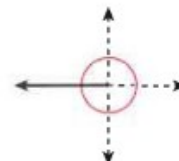
TARGET To identify right angles and other multiples of 90° .

A quarter turn is 90° .
A half turn is 180° .

A three quarter turn is 270° .



A whole turn is 360° .



A

Find the new time if the hour hand of a clock turns:

- 1 90° from 9 o'clock
- 2 180° from 3 o'clock
- 3 360° from 12 o'clock
- 4 90° from 3 o'clock
- 5 180° from 6 o'clock
- 6 90° from 12 o'clock
- 7 360° from 6 o'clock
- 8 180° from 9 o'clock.

How many degrees is the turn clockwise from:

- | | |
|-----------|------------|
| 9 S to W | 13 W to N |
| 10 W to E | 14 S to N |
| 11 E to S | 15 N to E |
| 12 N to S | 16 E to W? |

How many degrees is the turn anti-clockwise from:

- | | |
|-----------|------------|
| 17 W to S | 21 N to W |
| 18 N to S | 22 S to N |
| 19 E to W | 23 E to N |
| 20 S to E | 24 W to E? |

B

Find the new time if the hour hand of a clock turns:

- 1 180° from 8 am
- 2 90° from 1 pm
- 3 360° from 6 pm
- 4 270° from 5 am
- 5 180° from 10 pm
- 6 90° from 3 pm
- 7 360° from 2 am
- 8 270° from 11 am.

How many degrees is the turn clockwise from:

- 9 S to W
- 10 NE to SW
- 11 W to S
- 12 SE to SE
- 13 E to S
- 14 SE to NE
- 15 N to S
- 16 SW to NW?

How many degrees is the turn anti-clockwise from:

- 17 E to N
- 18 NE to SW
- 19 W to N
- 20 N to N
- 21 SE to SW
- 22 NW to SW
- 23 S to E
- 24 SW to NE?

C

How many degrees does the minute hand turn in:

- | | |
|--------------|---------------|
| 1 15 minutes | 5 45 minutes |
| 2 5 minutes | 6 20 minutes |
| 3 55 minutes | 7 60 minutes |
| 4 10 minutes | 8 35 minutes? |

How many degrees is the turn clockwise from:

- 9 W to NW
- 10 S to SE
- 11 SW to N
- 12 NE to W
- 13 E to SW
- 14 NE to E
- 15 NW to S
- 16 N to NW?

17 Calculate the missing angles $a-h$.

